

Amendments to the Specification:

Please replace the paragraph on page 4, beginning on line 13, with the following paragraph:

Referring to Fig. 2, [[T]]the load balancer 20 further includes a self-adaptive subsystem 24 including a control implementation that uses various control mechanisms to vary the operation of one or many of the APs 14 and clients 12, so as to balance the distribution of wireless clients 12 among the APs 14. The control mechanisms of the control implementation include a WLAN admission control of clients, so as to defer a client from associating with an AP 14 at a given time, or to force a client 12 to change frequency, and to assign or steer AP antenna coverage patterns and/or polarization. Other control mechanisms include varying the signal power of the clients and/or APs, changing the data rate, coding, and modulation of the signal, and varying the packet length and other controllable protocol characteristics. In addition, the load balancer contains an implementation whereby it can modify the fitness measure definition, so as to achieve any desired or practical load distribution or to adapt to variations in network demand or other changing performance factors.